PENETRON® ADVANCED WATERPROOFING & PROTECTION SYSTEMS

PHOTOSTABLE AND SOLVENT FREE 2-COMPONENT POLYURETHANE MATT SEALER WITH INCREASED COVERAGE AS FINISH SEALER ON WALLS AND CEILINGS

DESCRIPTION

PU 806 E - WALL is a low-emission, pigmented, 2-component polyurethane resin sealer with increased coverage. The sealer is suitable for the finish sealing of smooth, nonporous, and jointless coatings made of EP 652 W on walls and ceilings. PU 806 E CLEAN-WALL is a 2-component polyurethane resin coating provided with a preventive protection against bacterial contamination. This assists the production of permanently hygienic surfaces, even between the necessary cleaning and disinfection cycles. Note: The processing information and the technical data of PU 806 E CLEAN – WALL do not differ from the standard product. PU 806 E - WALL offers easy processing properties and high coverage. Usually it is sufficient to seal one time to achieve an even coverage when sealing walls and ceilings with the same or similar colour tone. It might be necessary to apply the sealer in more than one step due to a different coloured substrate or lightness. The products are certified according to the “Indoor Air Comfort Gold” and meet the requirements for a sustainable construction certification according to DGNB (Germany), LEED (United States) or BREEAM (Great Britain). “Indoor Comfort Gold” fulfills the highest requirements in regards to the emission of Volatile Organic Compounds and respects not only the German limits of AgBB or ABG, but also of the emissions regulations of many other European countries. The colour stable PU 806 E - WALL is especially suitable for the finish sealing of epoxy resin coatings. The sealer offers good adhesion on different substrates and may also even be applied on older substrate. Test sufficient adhesion with trials. PU 806 E - WALL offers good resistance to different chemicals like diluted acids and alkalis, and aqueous solutions. Ask for advice if necessary! Note: For the coloured sealing of floor coatings and for special requirements to the AgBB it is recommended to use PU 806 E. In very or frequently wet areas, as well as areas exposed to chemicals, sealers containing solvents would be more appropriate.

RECOMMENDED FOR

Typical areas of application are:

- PU 806 E - WALL is used as a pigmented matt sealer additionally and especially for ceilings, walls, and vertical surfaces.
- As matt sealer for wall coatings made of EP 652 W.
- For decorative coatings on walls and ceilings with a high demand on the optical appearance, e.g. plumbing units, bath rooms, and so on.
- Hygienic wall coatings for e.g. hospitals, clean rooms, care facilities.

ADVANTAGES

- High coverage
- For walls, ceilings, and vertical surfaces
- Matt and optically appealing surface
- Excellent adhesion
- Easy processing
- Solvent-free
- Water vapour permeable
- Abrasion resistant
- Environmentally friendly

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TECHNICAL CHARACTERISTICS

Characteristic	Test Result	Test Method
Viscosity (Components A+B)	800 – 1500 mPa s	EN ISO 3219 at 73.4 ºF (23 ºC)
Density (Components A+B)	1.15 kg/lt	EN ISO 2811-2 at 68 ºF (20 ºC)
Color	See relevant color chart	
Solid content	> 99 %	KLB-Method
Flashpoint	Not flammable	DIN 51755
Abrasion (Taber Abraser)	< 13 mg	ASTM D4060
Brightness (85º)	20-40	DIN 67530
Diffusion resistance rate	7500	DIN EN ISO 12572
Diffusion equivalente air layer sd (0.1 mm)	0.75 m	DIN EN ISO 7783-2
Processing time at 50 ºF (10 ºC)	180 minutes	
Processing time at 68 ºF (20 ºC)	120 minutes	
Processing time at 86 ºF (30 ºC)	50 minutes	
Processing temperature	Minimum 50 ºF (10 ºC) room and floor temperature	
Ripening (imperative)	After mixing wait at least 10 min, then blend once again for 1 min	
Curing time at 50 ºF (10 ºC)	14-18 hrs (Accessibility)	
Curing time at 68 ºF (20 ºC)	12-14 hrs (Accessibility)	
Curing time at 86 ºF (30 ºC)	8-12 hrs (Accessibility)	
Curing	Dust-dry after 2 - 3 hours at 68 ºF (20 ºC) 2-3 days for mechanical load at 68 ºF (20 ºC) 7 days for chemical resistance at 68 °F (20 ºC)	
Further coatings	After 12-18 hours, but not longer than 48 hours at 68 ºF (20 ºC)	
Layers	1-2 coats depending on the colour	
Layer thickness	0.100 – 0.150 mm for two coat application	

The aforementioned results are related to average laboratory test results. In reality the climate changes, such as temperature, moisture and surface porosity may change these results.

DIRECTIONS FOR USE

Surface Preparation: The substrate to be coated has to be levelled, dry, free of dust, has to have adequate tensile and compressive strength, and be free from weakly-bonded components or surfaces. Materials impairing adhesion, such as grease, oil, and paint residues must be removed using suitable methods. Please refer to the advice issued by the trade associations, e.g. the current edition of BEB-worksheets KH-0/U, KH-0/S, and KH-2. Usually when applying a coat the sealing is applied as the finish layer. Please note that the previous coat hasn't been soiled already. The ideal point of time for sealing is achieved when the previous coating has built an adequate film, but hasn't cured completely yet. When using the usual systems curing applies to 68 °F (20 °C) after 18 hours at the earliest and 72 hours at the latest. When sealing at a later point of time conduct a trial and test the substrate for adequate adhesion. Clean and prepare older substrate with a suitable mechanical method where required. When sealing old synthetic resin surfaces test for adequate adhesion. It is recommended to conduct a trial.

Mixing: Combi-trading units will be supplied in the correctly measured mixing ratio. Temper component A before use. Shake well before emptying in a clean oval bucket. Add component B and mix immediately. Blend with a slow speed mixer (200 - 400 rpm) for at least 2 - 3 minutes, for a material that is homogeneous and free of streaks. To avoid mixing errors it is recommended to empty the resin/hardener-mixture into a clean container and mix briefly once again.

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Important to improve results: Wait at least 10 minutes (pre-reaction) – and blend once again.

PU 806 E must be mixed 10 minutes before application to achieve optimum technical properties. Blend briefly one more time to achieve a complete homogenisation.

Processing time max. 2 hours at 68 °F (20 °C see chart "Processing time").

Note: End of pot-life not visible

Mixing ratios:

A:B = 100:11 parts by weight
A:B = 100:10 parts by volume

Processing/Handling:

Process right after homogenisation just like with all other reactive resin products. Apply with a lint-free and solvent-resistant velour sealing roller. Divide working areas to avoid duplicate applications and overlaps. Overlapping and duplicate applications may lead to an uneven appearance and streaks.

Roller used for distributing the material should be coated with the material. Use only for distribution not for application. Always work "fresh- in-fresh" and watch for an even distribution. Avoid ponding otherwise blooming and blushing may occur.

Floor- and air-temperature must not fall below 50 °F (10 °C) and/or humidity must not exceed 75 %. The difference in floor- and room-temperature must be less than 37.4 °F (3 °C) so the curing will not be disturbed. If a dew- point situation occurs adhesion may malfunction, curing may be disturbed, and spotting may occur. Exposure to water should be avoided within the first 7 days. Curing time applies to 68 °F (20 °C). Lower temperature may increase, higher temperature may decrease the curing and processing time.

If working conditions are not complied with, deviations in the described technical properties may occur in the end product.

Note: Long or improper storage can bring to a film forma- tion inside the bucket. We recommend to sieve the sealer. KLB-Eimersieb 15L (Art. N. WZ7050-01) allows a fast sieving and a good sealing result.

Suitable coatings

The following self-levelling coatings can be sealed with PU 806 E WALL / PU 806 E CLEAN-WALL:

EP 652 W

With other coatings adhesion must be tested. The surface adhesion can anyway be improved by grinding

COVERAGE

0.100 – 0.120 kg/m^2 for each application.

SPECIAL CONSIDERATIONS

To remove fresh contamination and to clean tools, use water immediately. Hardened material can only be removed mechanically.

Please note our maintenance and care recommendation for sealed floorings. For the warranty of interlayer adhesion do not apply any KLB-floor care products on aqueous sealers within the first 7 days at 68 °F (20 °C).

In special cases, especially with vibrant colours, the cleaning might cause a loss of colour. This can be avoided by laying an additional transparent sealing, e.g. PU 805 E. The products of the "Clean" line must not be sealed with transparent sealers. If necessary, ask for a consultancy.

The product is subject to the hazardous material-, operational safety-, and transport-regulations for hazardous goods. Refer to the DIN-Safety Data Sheet and the information on the labelled containers!

PU 806 E CLEAN - WALL: Use the biocide product with caution. Always read the label and the product information before use.

GISCODE: W1/DD

Indication of VOC-Content: (EG-Regulation 2004/42), Maximum Permissible Value 140 g/l (2010,II,j/wb): Ready-for-use product contains < 140 g/l VOC.

Contact PENETRON HELLAS S.A. for additional information, regarding your project.

PACKAGING

PU 806 E WALL is available in 5.4+0.6 kg and 10.8+1.2 kg. containers.

STORAGE / SHELF LIFE

Store in dry and frost-free conditions. Ideal storage temperature is between 50 - 68 ºF (10 - 20 ºC). Do not store above 95 ºF (35 ºC).Bring to a suitable working temperature before application. Tightly re-seal opened containers and use the content as soon as possible. When properly stored in a dry place in unopened and undamaged original packaging, shelf life is 12 months.

SAFE HANDLING INFORMATION

Avoid skin and eye contact. If contact is made, flush areas with lots of water and seek medical advice. Protective gloves, mask and goggles should be worn. For further information please refer to Safety Data Sheet. PENETRON HELLAS S.A. has recently updated Safety Data Sheet on the safe use of PENETRON® products. Each Safety Data Sheet contains health and safety information for the protection of your employees and your customers. KEEP OUT OF REACH OF CHILDREN.

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CERTIFICATION

Suitable for use in foodstuffs according § 31 para. 1, German Food and Feed Code (German law LFGB).

Certified low-emission according to „Eurofins Indoor Air Comfort Gold“. Compliant with AgBB and DIBt®- accredited for recreation rooms.

Bacteriostatic activity according to ISO 22196:2011-08 and JIS 2801:2000.Please ask for the tested system structure.

CE

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PU806E-WALL/PU806CLEAN-WALL-V2-062015
DIN EN 13813:2003-01
Synthetic resin screed mortar
DIN EN 13813: SR-B1.5-AR0.5-IR16
Fire behavior: E_{fl}-s1
Emission of corrosive substances: SR
Wear resistance BCA: AR 0.5
Adhesive tensile strength B 1.5
Impact resistance: IR 16

WARRANTY – DISCLAIMER

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